

SUBMITTAL DATA SHEET

Series Name: Arctic Series Heat Pump
Model Number: CPARS30KR3A/CPARS30KR3C



Air Handler Heat Pump System

| | |
|---------------|---------------|
| Location: | Approval: |
| Engineer: | Date: |
| Submitted to: | Construction: |
| Submitted by: | Unit #: |
| Reference: | Drawing #: |



INDOOR SPECIFICATION

| | |
|---|---------------------------|
| Indoor Air Flow (Turbo/H/M/L/Si) (CFM) | 1000/820/650 |
| Indoor Noise Level (Turbo/H/M/L/Si) (dBA) | 50/48/46 |
| Dimension (W×D×H) | inch 21x21x49 |
| | mm 534x534x1245 |
| Package (W×D×H) | inch 24-5/8x27-3/4x55-1/2 |
| | mm 625x705x1410 |
| Net/Gross Weight | lbs 132.9/152.1 |
| | kg 60.3/69 |

OUTDOOR SPECIFICATION

| | |
|------------------------------|-------------------------------|
| Compressor Type | ROTARY |
| Refrigerant | R32 |
| Refrigerant Oil Charge(mL) | 1,000 |
| Refrigerant Oil | VG74 |
| Outdoor Air Flow (Max) (CFM) | 4,000 |
| Outdoor Noise Level (dBA) | 58 |
| Dimension (W×D×H) | inch 39-13/16x15-3/4x51-15/16 |
| | mm 1011x400x1320 |
| Package (W×D×H) | inch 42-1/2x16-15/16x56-11/16 |
| | mm 1080x430x1440 |
| Net/Gross Weight | lbs 196.16/216.1 |
| | kg 89/98 |

EFFICIENCY

| Cooling | | Heating | |
|---------|------|---------|-----|
| SEER2 | 18.0 | HSPF2-4 | 9.0 |
| EER2 | 11.6 | COP | 3.3 |

PERFORMANCE of Cooling

| Cooling (Btu/hr) | |
|---------------------------------|---|
| Rated Capacity | 30,000 |
| Min/Max Capacity | 8,000~34,000 |
| Moisture Removal(L/h) | 3.53 |
| Standard Operating Range(°F/°C) | 5~125(-15~52) |
| Conditions: | Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB |

PERFORMANCE of Heating

| Heating (Btu/hr) | |
|---------------------------------|---|
| 1. @ 47°F Rated | 33,000 |
| 1. @ 47°F Min/Max Capacity | 5,500-36,000 |
| 2. @ 17°F Rated | 33,000 |
| 3. @ 5°F Rated: Capacity | 33,000 |
| 3. @ 5°F Max: Capacity | 33,000 |
| Standard Operating Range(°F/°C) | -22~75(-30~24) |
| 1. Conditions: | Indoor: 70°F DB/60°F WB Outdoor: 47°F DB/43°F WB |
| 2. Conditions: | Indoor: 70°F DB/60°F WB Outdoor: 17°F DB/15°F WB |
| 3. Conditions: | Indoor: 70°F DB/60°F WB Outdoor: 5°F DB/5°F WB |

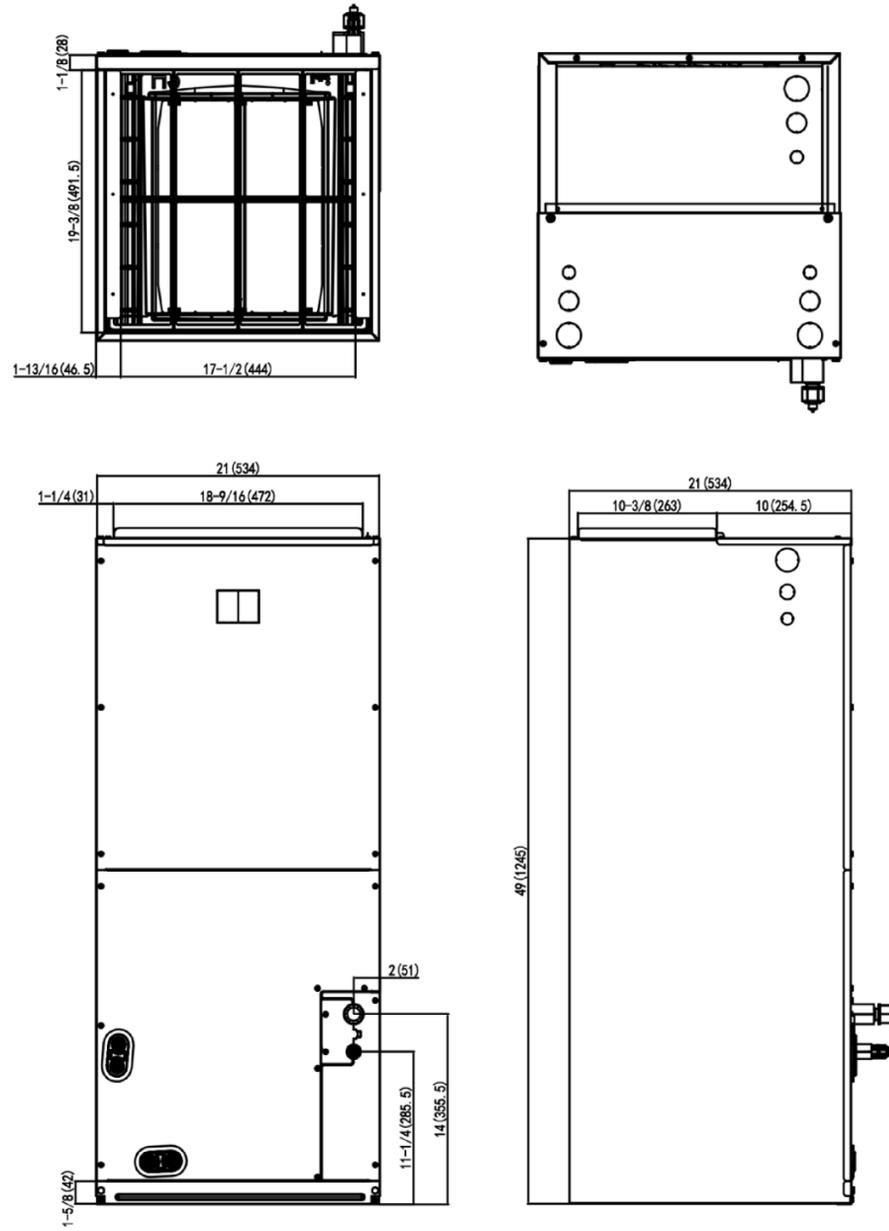
ELECTRICAL

| | |
|----------------------------------|--|
| Power Supply | 208/230V,60Hz,1Ph |
| System MCA | 24 |
| Connection Wiring | AWG 12-3 |
| System MOCP | 35 |
| Compressor RLA | 17 |
| Outdoor Fan Motor RLA | 2.2 |
| Indoor Fan Motor RLA | 3.6 |
| Indoor Fan Motor W | 370 |
| System Power Input @ Cooling (W) | 2,568 |
| System Power Input @ Heating (W) | 2,931 |
| MCA: Min. circuit amps (A) | MOCP: Max. over current protection (A) |
| RLA: Rated load amps (A) | W: Fan motor rated output (W) |

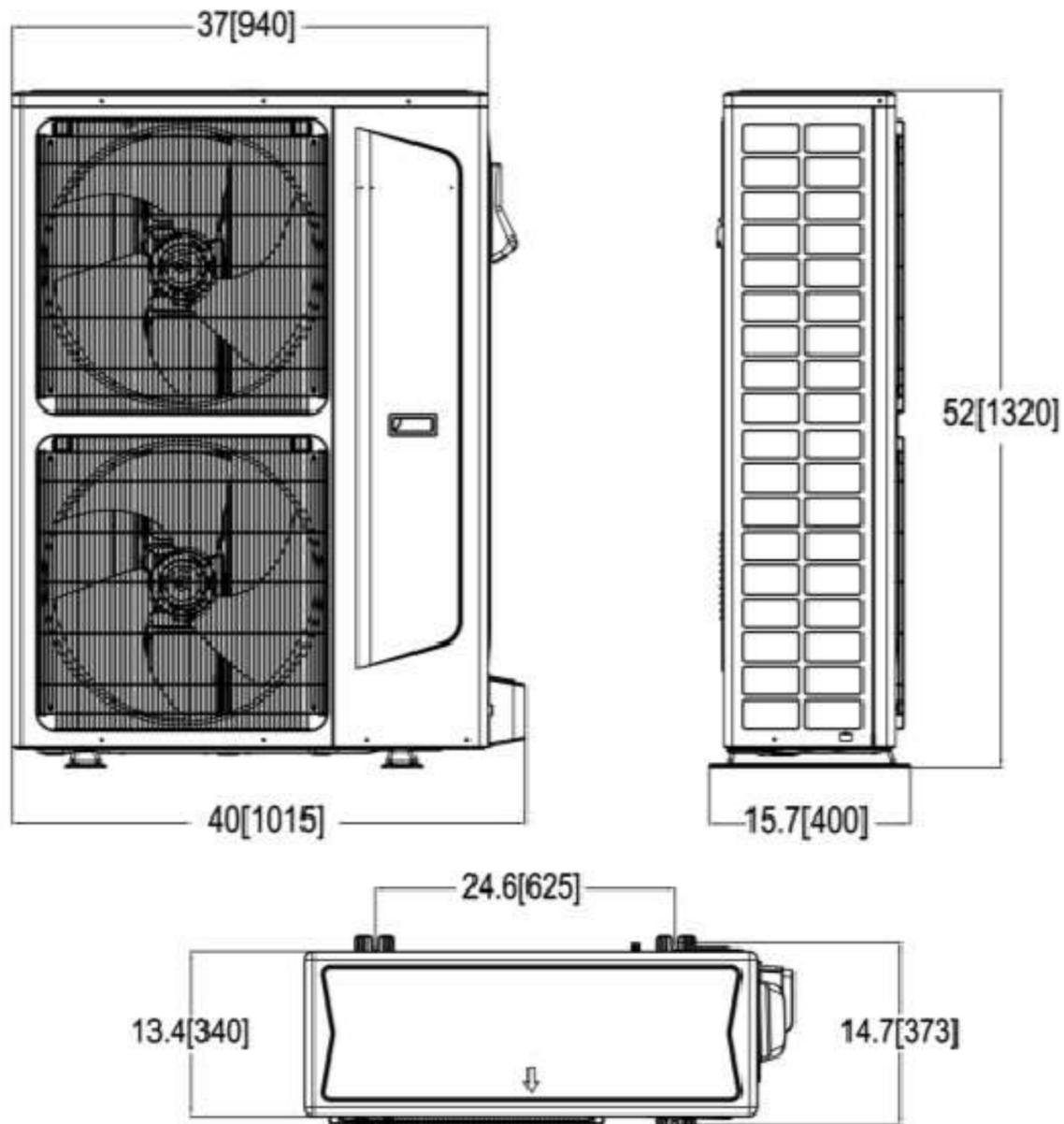
PIPING

| | |
|---|-------------|
| Liquid Size | 3/8(Φ9.52) |
| Gas Size | 5/8(Φ15.88) |
| Max. Piping Length(ft/m) | 98.4(30) |
| Max. Height Difference(ft/m) | 49(15) |
| Max. Pre-charged Length(ft/m) | 24.6(7.5) |
| Refrigerant Pre-charged Amount(oz/kg) | 116.4(3.3) |
| Additional Charge of Refrigerant((oz/ft)/(g/m)) | 0.16(15) |
| Connection Method | Flared |

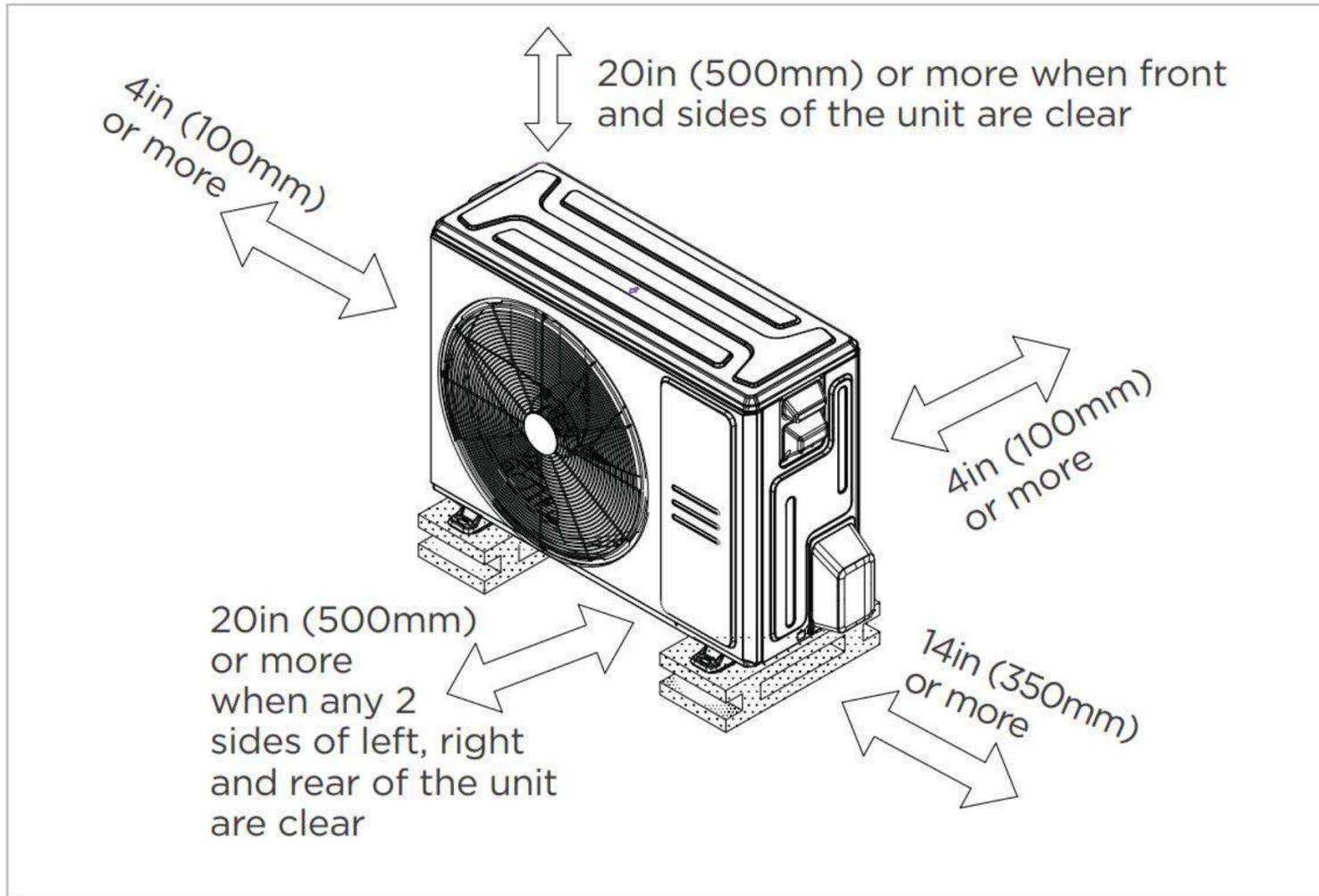
Indoor Unit Dimension



Outdoor Unit Dimension



Installation Instruction



Meets all spatial requirements shown in Installation Clearance Requirements above.

- Reliable operation in extreme conditions: effective heating down to -13°F and cooling up to 125°F ambient for year-round comfort
- Wide voltage range (170–263V) for stable performance during power fluctuations and PCB surge protection
- Extended refrigerant piping: up to 164 ft total length and 98 ft height difference for greater installation flexibility
- Four-position installation versatility: Upflow, Downflow, Horizontal Left, Horizontal Right
- Auto-restart after power interruptions, automatically resuming prior settings
- Refrigerant cooling system to reduce PCB temperatures and prevent overheating
- Dual-protocol communication support (24V and 485) for seamless integration
- High external static pressure: rated up to 0.5 in. W.C., maximum up to 1.0 in. W.C.
- AHRI certified and ETL listed